

AIR FORCE INSTALLATION AND MISSION SUPPORT CENTER



Former Reese AFB Begins Next Step in PFAS Investigation

What are PFAS?

Per- and polyfluoroalkyl substances (PFAS) are a group of synthetic, fluorinated organic compounds used in many industrial and consumer products. In 1970, the U.S. Air Force (USAF) began using aqueous film forming foam (AFFF), which contains PFAS, to extinguish petroleum fires to save people and protect property.

Air Force Response to PFAS

The USAF is taking aggressive measures at the former Reese Air Force Base, Texas, and Air Force-wide, to ensure communities have safe drinking water. The USAF is using a comprehensive approach — identify, respond, prevent — to assess potential risks to drinking water and take action to protect human health.

The USAF is committed to working with the Texas Commission on Environmental Quality (TCEQ) and community leaders to protect human health on and around Former Reese AFB. The USAF complies with the Resource Conservation and Recovery Act (RCRA) permit issued by TCEQ for all environmental restoration requirements at Reese.

Reese PFAS Investigation

In 2014, the USAF began assessing potential PFAS contamination stemming from historical AFFF use at the former base. Under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) process, the Air Force conducted a Preliminary Assessment (PA) and Site Inspection (SI). SI fieldwork confirmed contamination exceeded TCEQ protective concentration levels (PCLs). The USAF will complete remaining investigations in compliance with the RCRA permit.

Affected Property Assessment

The next phase of investigation in the RCRA process is an Affected Property Assessment (APA). During the APA, the USAF will delineate the nature and extent of contamination, identifying migration pathways, and determining if any response actions are necessary.

Protective Concentration Levels

Per the RCRA permit, the USAF adheres to the Texas Risk Reduction Program (TRRP). Under the TRRP, TCEQ published PCLs for 16 PFAS, including PFOS and PFOA, in soil and groundwater.

The USAF also adheres to the Environmental Protection Agency (EPA) Lifetime Health Advisory (HA) levels of 70 parts per trillion

(EPA) Lifetime Health Advisory (HA) levels of 70 parts per trillion (ppt) for PFOS and PFOA in drinking water because the federal three

Perfluorooctanesulfonic acid (PFOS) *560 Perfluorooctanoic acid (PFOA) *290 Perfluorononanoic acid (PFNA) 290 Perfluorohexanesulfonic acid (PFHxS) 93 Perfluoroheptanoic acid (PFHpA) 560 Perfluorobutanesulfonic acid (PFBS) 34,000 Perfluorodecanoic acid (PFDA) 370 Perfluorododecanoic acid (PFDA) 290 Perfluorohexanoic acid (PFHxA) 93 Perfluorotetradecanoic acid (PFTeA) 290 Perfluorotridecanoic acid (PFTrDA) 290 Perfluoroundecanoic acid (PFUnA) 290 Perfluorobutanoic acid (PFUnA) 290 Perfluorobutanoic acid (PFUnA) 290	PFAS compounds with PCLs	GW (ppt)
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	Perfluorobutanoic acid (PFBA)	71,000
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Perfluorooctane sulfonamide (PFOSA) 290	Perfluorooctane sulfonamide (PFOSA)	290
Perfluoropentanoic Acid (PFPeA) 93	Perfluoropentanoic Acid (PFPeA)	93

(ppt) for PFOS and PFOA in drinking water because the federal threshold is more conservative than TCEQ's PCLs for *Tier 1 residential groundwater.

Preliminary Assessment	Site Inspection	Affected Property Assessment	
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Oct. 2014 - Jan. 2016	Mar. 2017 - Oct. 2018	Oct. 2019 - Present	

What will I see?

You might see drilling rigs in neighborhoods. They're gathering groundwater samples. You may have seen a drill rig before, as we began sampling in late June.

Air Force Response to PFAS at Former Reese AFB

IDENTIFY

- PA/SI identified GW impacts above HA/ TCEQ PCLs at 10 areas and soil impacts at 8 areas.
- November 2017: based on SI sampling, began sampling DW sources within the study area.
- April 2018: USAF implemented quarterly DW monitoring schedule.





- Providing alternative DW to all residences of 235 private wells and four public water wells that exceed the HA and/or TCEQ PCLs.
- Installing treatment systems at all affected wells.
- Developing a cooperate agreement with the City of Lubbock to build water lines to affected homes in city limits.
- Maintaining and sampling treatment systems to ensure drinking water criteria are met.

PREVENT

The Air Force discontinued AFFF use following base closure in September 1997.



Completed to date

Installed 40 new monitoring wells (MWs) on the former Reese AFB during SI and APA fieldwork activities.

Collected a total of 318 soil samples, 12 sediment samples and **nine** surface water samples during SI.

Sampled a total of 514 DW wells: identified 235 private wells and four municipal wells that exceed the HA and/or TCEQ PCLs.



Upcoming



4 June 2019 **Public Meeting**

September 2019

Award contract for APA investigation.

Mar. 2018 - Ongoing

Recurring DW sampling and treatment system O&M.

30 June 2019

Finish installing individual treatment **June 2020**

APA initiated investigation fieldwork.

systems

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